



INVESTOR IN PEOPLE

Application No: GB 0003971.9  
Claims searched: 1-4

10

Examiner: Pete Beddoe  
Date of search: 16 November 2000

## Patents Act 1977 Search Report under Section 17

### Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:  
UK Cl (Ed.R): C7B (BDCA, BDCC, BDCF, BDCJ, BDCK, BDCN, BDDA, BDDA, BDDDB, BDDC, BEDL)  
Int Cl (Ed.7): C22B (21/00, 21/02, 21/04, 34/12); C25C (3/26, 3/28); C25F (1/12, 1/16)  
Other: Online: WPI, EPODOC, JAPIO

### Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X,A	WO 99/64638 A1 (CAMBRIDGE UNIVERSITY) see esp exs & fig 1	1-4
X	GB 781803 (HORIZONS) see esp exs	1-4
A	Nature, Vol 407, 21 September 2000, G Z Chen et al, "Direct electrochemical reduction of titanium dioxide to titanium in molten calcium chloride", pages 361-364, see whole article	1-4
X,A	Journal of Alloys and Compounds, Vol 237, 15 April 1996, D R Sadoway et al, "Electrochemical deoxidation of yttrium-oxygen solid solutions", pages 150-154, see esp "experimental" section	1-4
X,A	Metallurgical Transactions B, Vol 24B, June 1993, T H Okabe et al, Electrochemical Deoxidation of Titanium, pages 449-455, see esp "Experimental" and "Results" sections	1-4
X,A	Acta Chemica Scandinavica, Vol 45, 1991, S Boghosan et al, "Oxide Complexes in Alkali-Alkaline-Earth Chloride Melts, pages 145-157, see esp p146 lines 21-34 (LHS) & p150 et seq	1-4

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.



INVESTOR IN PEOPLE

Application No: GB 0003971.9  
Claims searched: 5-8

Examiner: Pete Beddoe  
Date of search: 17 May 2001

## Patents Act 1977 Further Search Report under Section 17

### Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.S): C7B (BCBX, BDCA, BDCC, BDCF, BDCJ, BDCK, BDCN, BDDA, BDDDB, BDDC, BEDL)

Int Cl (Ed.7): C22B (21/00, 21/02, 21/04); C25C (3/00, 3/26, 3/28, 5/00, 5/02, 5/04); C25F (1/12, 1/16)

Other: Online: WPI, EPODOC, JAPIO

### Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	GB 781803 (HORIZONS) see esp ex II	5 at least
X	WO 99/64638 A1 (CAMBRIDGE UNIVERSITY) see esp p13 lines 15-22	5 at least
X	WO 98/49371 A1 (ALTA) see esp p9 line 30 - p10 line 12 & p10 line 25 - p11 line 9	5 at least
X	US 4187155 (DIAMOND) see esp exs 1,2,3	5 at least
A	Nature, Vol 407, 21 September 2000, G Z Chen et al, "Direct electrochemical reduction of titanium dioxide to titanium in molten calcium chloride", pages 361-364, see whole article and esp 2 <sup>nd</sup> para of "Methods" section at page 363	

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.